# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377


Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/405b/Cube/2017-18

25.09.2017

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. B.T. Ravikumar,** #129, 3rd Main Road, HVR Layout, Magadi Main Road, Bangalore – 560 079. |
| * Name of the work | : | Improvements & Asphalting to Main & Cross roads in Mathrushree Layout & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore. |
| * Reference | : | EE/DD/WO/125/2016-17 Dated: 21.02.2017 |
| * Sample ID | : | Drain Covering Slab Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 25.09.2017 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 28.08.2017 | 25.09.2017 | 8.090 | 485.5 | 21.58 |
| 2 | 28.08.2017 | 25.09.2017 | 8.180 | 513.2 | 22.81 |
| 3 | 28.08.2017 | 25.09.2017 | 8.295 | 529.6 | 23.54 |

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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*********

VIDYARANI P.K.
Technical Manager


#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
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Lab No.: CTCE/BBMP/BTR/W.No.13/CSR-08/405b/Cube/2017-18 25.09.2017

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| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 25.09.2017 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 28.08.2017 | 25.09.2017 | 8.185 | 474.6 | 21.09 |
| 2 | 28.08.2017 | 25.09.2017 | 8.275 | 498.3 | 22.15 |
| 3 | 28.08.2017 | 25.09.2017 | 8.387 | 525.6 | 23.36 |

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T-2377


Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/405b/Cube/2017-18

14.09.2017

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
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| * Reference | : | EE/DD/WO/125/2016-17 Dated: 21.02.2017 |
| * Sample ID | : | RCC Drain Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 14.09.2017 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 17.08.2017 | 14.09.2017 | 8.125 | 474.5 | 21.09 |
| 2 | 17.08.2017 | 14.09.2017 | 8.295 | 496.3 | 22.06 |
| 3 | 17.08.2017 | 14.09.2017 | 8.310 | 508.3 | 22.59 |

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AE-13

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Lab No.: CTCE/BBMP/BTR/W.No.13/CSR-08/405b/Cube/2017-18 14.09.2017

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|---|---|---|
| *** Customer** | : | **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
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| *** Name of the work** | : | Improvements & Asphalting to Main & Cross roads in Mathrushree Layout & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore. |
| *** Reference** | : | EE/DD/WO/125/2016-17 Dated: 21.02.2017 |
| *** Sample ID** | : | RCC Drain Concrete |
| **Technical Reference** | : | IS: 516-1959 (RA-2013) |
| **Size of cubes** | : | 150mmx150mmx150mm |
| **Cross Sectional Area** | : | 22500 $mm^2$ |
| *** Grade of Concrete** | : | $M_{20}$ |
| **Compressive Strength as on** | : | $28^{th}$ day |
| **Sample Received on** | : | 14.09.2017 |

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 17.08.2017 | 14.09.2017 | 8.098 | 480.3 | 21.35 |
| 2 | 17.08.2017 | 14.09.2017 | 8.190 | 490.6 | 21.80 |
| 3 | 17.08.2017 | 14.09.2017 | 8.268 | 513.2 | 22.81 |

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Lab No.: CTCE/BBMP/BTR/W.No.13/CSR-08/405b/Cube/2017-18 11.09.2017

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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| *** Sample ID** | : | RCC Drain Concrete |
| **Technical Reference** | : | IS: 516-1959 (RA-2013) |
| **Size of cubes** | : | 150mmx150mmx150mm |
| **Cross Sectional Area** | : | 22500 $mm^2$ |
| *** Grade of Concrete** | : | $M_{20}$ |
| **Compressive Strength as on** | : | $28^{th}$ day |
| **Sample Received on** | : | 11.09.2017 |

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 14.08.2017 | 11.09.2017 | 8.115 | 478.3 | 21.26 |
| 2 | 14.08.2017 | 11.09.2017 | 8.256 | 490.2 | 21.79 |
| 3 | 14.08.2017 | 11.09.2017 | 8.315 | 508.6 | 22.60 |

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| **Cross Sectional Area** | : | 22500 $mm^2$ |
| *** Grade of Concrete** | : | $M_{20}$ |
| **Compressive Strength as on** | : | $28^{th}$ day |
| **Sample Received on** | : | 11.09.2017 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 14.08.2017 | 11.09.2017 | 8.102 | 476.3 | 21.17 |
| 2 | 14.08.2017 | 11.09.2017 | 8.296 | 493.8 | 21.95 |
| 3 | 14.08.2017 | 11.09.2017 | 8.325 | 513.2 | 22.81 |

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| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 09.09.2017 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 12.08.2017 | 09.09.2017 | 8.205 | 480.3 | 21.35 |
| 2 | 12.08.2017 | 09.09.2017 | 8.326 | 525.5 | 23.36 |
| 3 | 12.08.2017 | 09.09.2017 | 8.415 | 506.6 | 22.52 |

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| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 09.09.2017 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 12.08.2017 | 09.09.2017 | 8.258 | 510.5 | 22.69 |
| 2 | 12.08.2017 | 09.09.2017 | 8.329 | 515.4 | 22.91 |
| 3 | 12.08.2017 | 09.09.2017 | 8.428 | 536.6 | 23.85 |

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T-2377


Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/405b/Cube/2017-18 07.09.2017

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
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| * Sample ID | : | RCC Drain Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 07.09.2017 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 10.08.2017 | 07.09.2017 | 8.235 | 482.3 | 21.44 |
| 2 | 10.08.2017 | 07.09.2017 | 8.339 | 505.6 | 22.47 |
| 3 | 10.08.2017 | 07.09.2017 | 8.405 | 512.8 | 22.79 |

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|---|---|---|
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| * Reference | : | EE/DD/WO/125/2016-17 Dated: 21.02.2017 |
| * Sample ID | : | RCC Drain Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 07.09.2017 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 10.08.2017 | 07.09.2017 | 8.162 | 498.3 | 22.15 |
| 2 | 10.08.2017 | 07.09.2017 | 8.299 | 506.2 | 22.50 |
| 3 | 10.08.2017 | 07.09.2017 | 8.382 | 512.8 | 22.79 |

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

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An ISO 9001:2008 Certified Company

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED


Job No.: CTCE/BBMP/BTR/W.No.13/Steel/2017-18

07.08.2017

## TEST REPORT ON REINFORCEMENT STEEL

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. B.T. Ravikumar,** #129, 3rd Main Road, HVR Layout, Magadi Main Road, Bangalore – 560 079. |
| * Name of work | : | Improvements & Asphalting to Main & Cross roads in Mathrushree Layout & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore. |
| * Reference | : | EE/DD/WO/125/2016-17 Dated: 21.02.2017 |
| * Samples ID | : | 12 mm Bar |
| Technical Reference | : | IS: 1786-2008 (RA-2013) |
| Date of Testing | : | 07.08.2017 |

| Sl No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress N/mm2 | Tensile strength (Ultimate stress) N/mm2 | Elongation percent gauge length | | |
| 1 | 12 | 0.89 | 520 | 562 | 13.45 | O.K | O.K |

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*Shakthi Ganapathinagar,*
*Basaveshwaranagar, Bangalore-560 079.*

# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED


Job No.: CTCE/BBMP/BTR/W.No.13/Steel/2017-18 07.08.2017

## TEST REPORT ON REINFORCEMENT STEEL

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. B.T. Ravikumar,** #129, 3rd Main Road, HVR Layout, Magadi Main Road, Bangalore – 560 079. |
| * Name of work | : | Improvements & Asphalting to Main & Cross roads in Mathrushree Layout & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore. |
| * Reference | : | EE/DD/WO/125/2016-17 Dated: 21.02.2017 |
| * Samples ID | : | 10 mm Bar |
| Technical Reference | : | IS: 1786-2008 (RA-2013) |
| Date of Testing | : | 07.08.2017 |

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| Sl No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress N/mm2 | Tensile strength (Ultimate stress) N/mm2 | Elongation percent gauge length | | |
| 1 | 10 | 0.62 | 516 | 557 | 13.25 | O.K | O.K |

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

**Note:**

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

AE-13

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*Civil-tech Consultants & Engineers*
*#23/14, 7th Cross, 3rd Stage, 4th Block,*
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Job No.: CTCE/BBMP/BTR/W.No.13/Steel/2017-18 07.08.2017

## TEST REPORT ON REINFORCEMENT STEEL

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. B.T. Ravikumar,** #129, 3rd Main Road, HVR Layout, Magadi Main Road, Bangalore – 560 079. |
| * Name of work | : | Improvements & Asphalting to Main & Cross roads in Mathrushree Layout & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore. |
| * Reference | : | EE/DD/WO/125/2016-17 Dated: 21.02.2017 |
| * Samples ID | : | 8mm Bar |
| Technical Reference | : | IS: 1786-2008 (RA-2013) |
| Date of Testing | : | 07.08.2017 |

| Sl No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress N/mm2 | Tensile strength (Ultimate stress) N/mm2 | Elongation percent gauge length | | |
| 1 | 8 | 0.39 | 512 | 553 | 13.05 | O.K | O.K |

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377


Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/405b/AGG/GR/2017-18 05.08.2017

## TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

| | | |
|---|---|---|
| *** Customer** | : | **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
| *** Agency** | : | **Mr. B.T. Ravikumar,** #129, 3rd Main Road, HVR Layout, Magadi Main Road, Bangalore – 560 079. |
| *** Name of Work** | : | Improvements & Asphalting to Main & Cross roads in Mathrushree Layout & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore. |
| *** Reference** | : | EE/DD/WO/125/2016-17 Dated: 21.02.2017 |
| *** Sample ID** | : | Coarse Aggregates (40mm) |
| **Technical Reference** | : | IS : 2386 (Part 1) -1963 (RA-2011) |
| **Sample Received on** | : | 03.08.2017 |
| **Date of Testing** | : | 05.08.2017 |

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Total Wt. of Aggregates in gms= **5000**

| IS Sieve Size in mm | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA- 2011) | |
|---|---|---|---|
| | | Graded | Single Sized |
| 80 | 100 | 100 | - |
| 63 | 100 | - | 100 |
| 40 | 96.40 | 95-100 | 85-100 |
| 20 | 40.40 | 30-70 | 0-20 |
| 10 | 15.10 | 10-35 | 0-5 |
| 4.75 | 1.20 | 0-5 | - |

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* Information is furnished by the Customer/Representative

**Remarks :** This sample is under graded specific limits.

**Note:**

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

AB-13

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VIDYARANI P.K.
Technical Manager


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